FIGURE 1

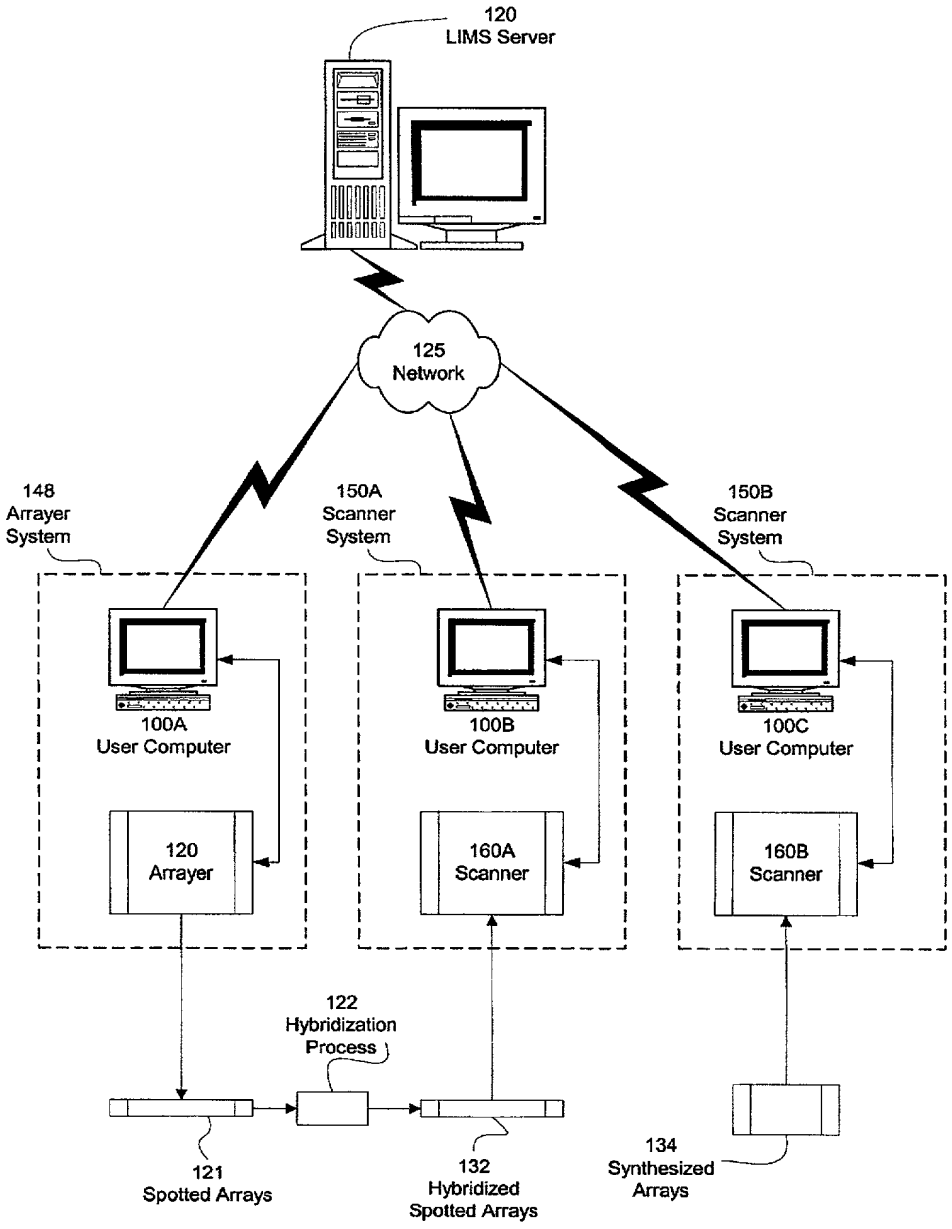

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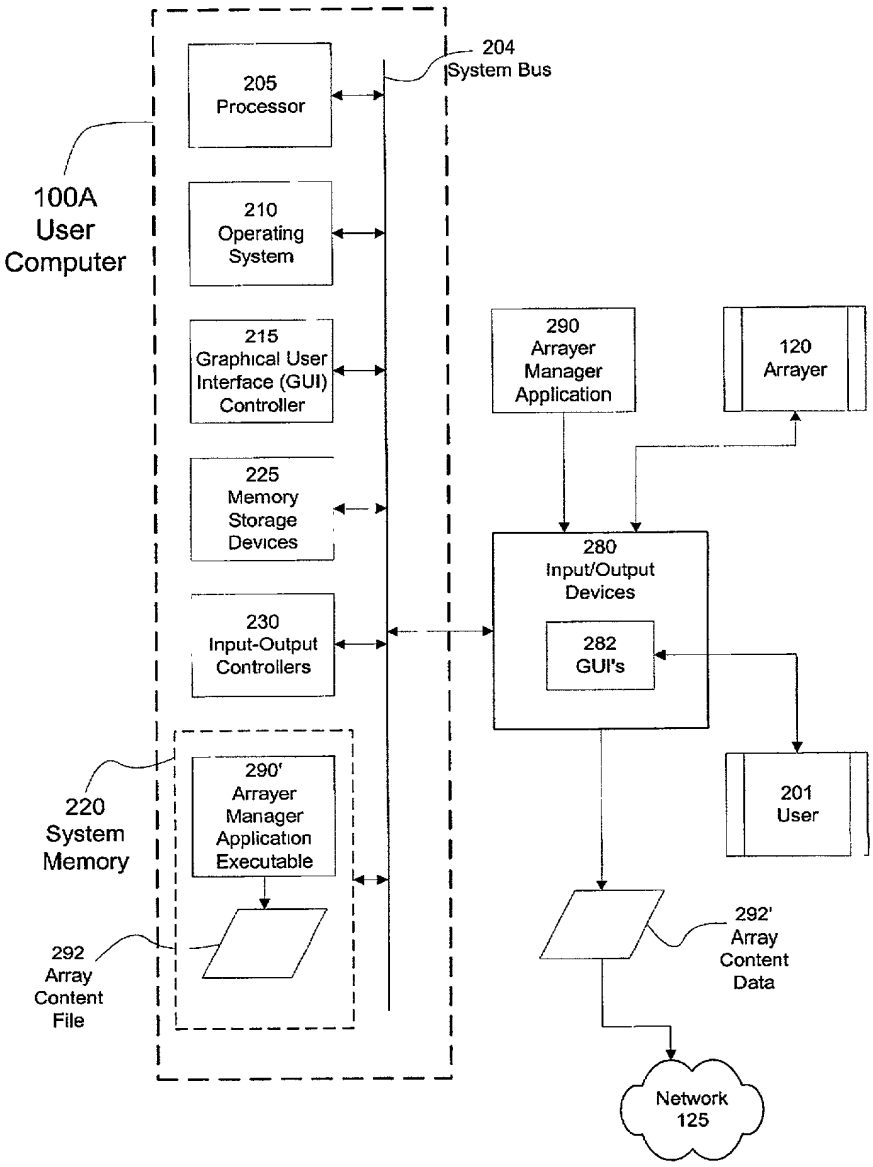
FIGURE 2



Docket No. 1-0

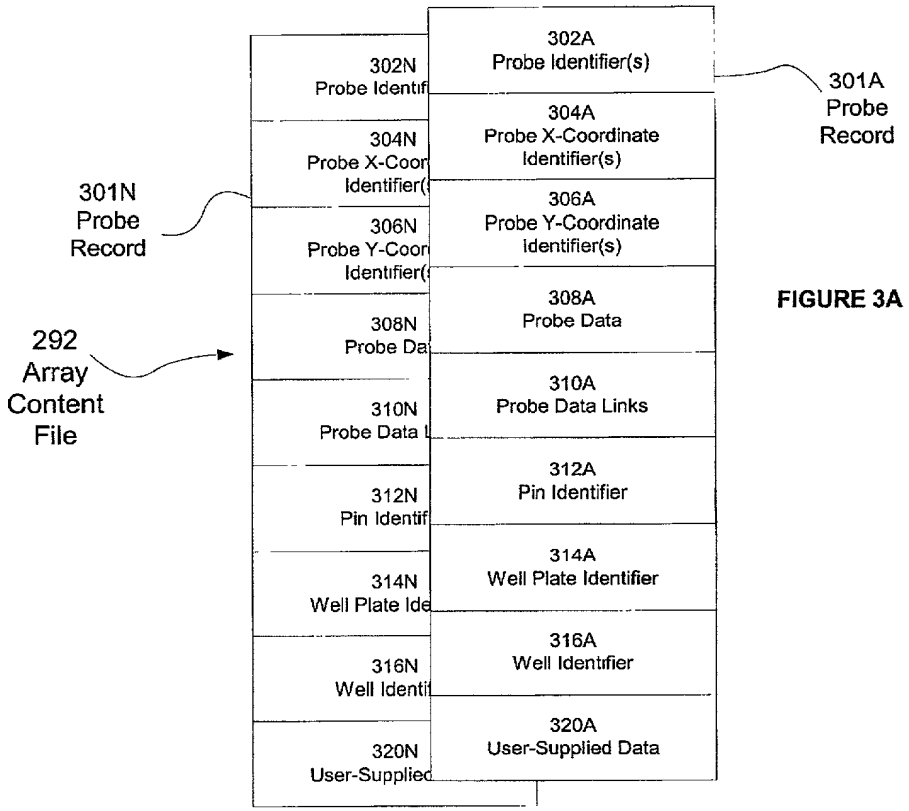


FIGURE 3A

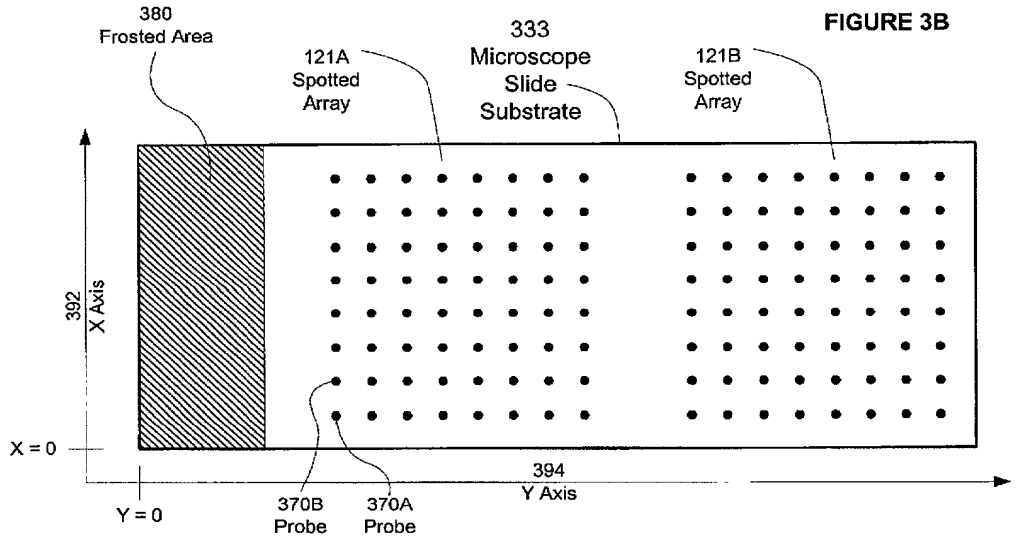


FIGURE 3B

FIGURE 4

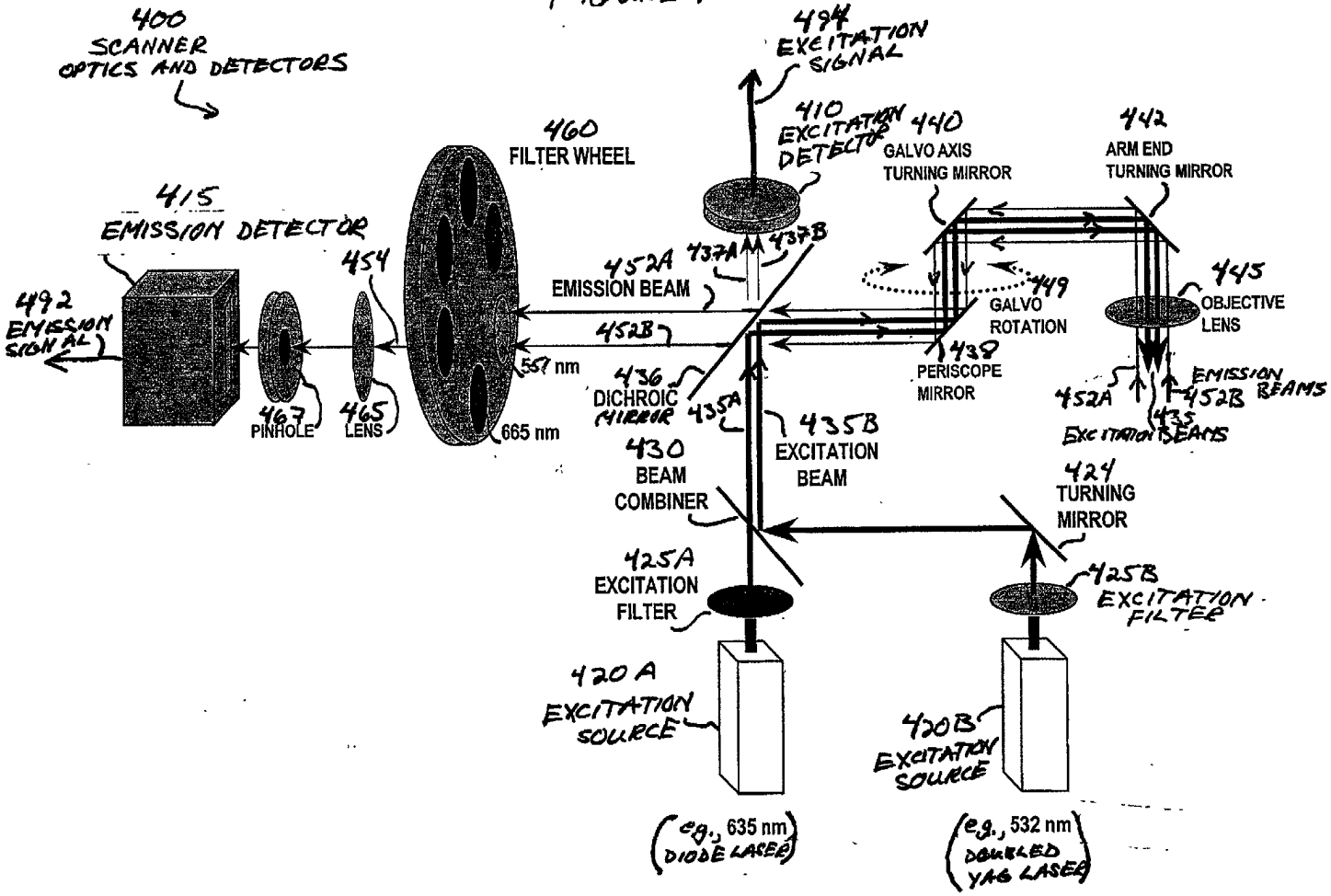

400
SCANNER OPTICS AND DETECTORS
494
EXCITATION SIGNAL
410
EXCITATION DETECTOR
440
GALVO AXIS TURNING MIRROR
442
ARM END TURNING MIRROR
460
FILTER WHEEL
415
EMISSION DETECTOR
454
452A
EMISSION BEAM
437A
437B
449
GALVO ROTATION
445
OBJECTIVE LENS
492
EMISSION SIGNAL
452B
557 nm
438
PERISCOPE MIRROR
436
DICHROIC MIRROR
435A
435B
EXCITATION BEAM
EMISSION BEAMS
435
EXCITATION BEAMS
430
BEAM COMBINER
424
TURNING MIRROR
425A
EXCITATION FILTER
425B
EXCITATION FILTER
420A
EXCITATION SOURCE
420B
EXCITATION SOURCE
467
PINHOLE
465
LENS
665 nm
(e.g., 635 nm DIODE LASER)
(e.g., 532 nm DOUBLED YAG LASER)

FIGURE 5A

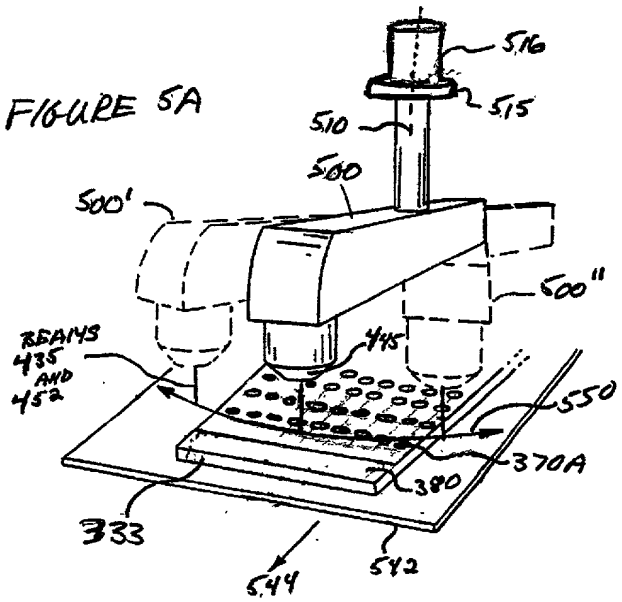


FIGURE 5B

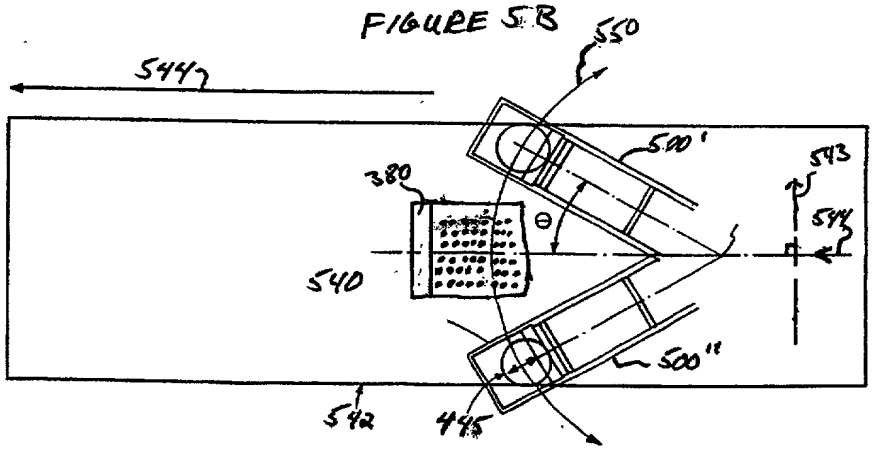


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FIGURE 6A

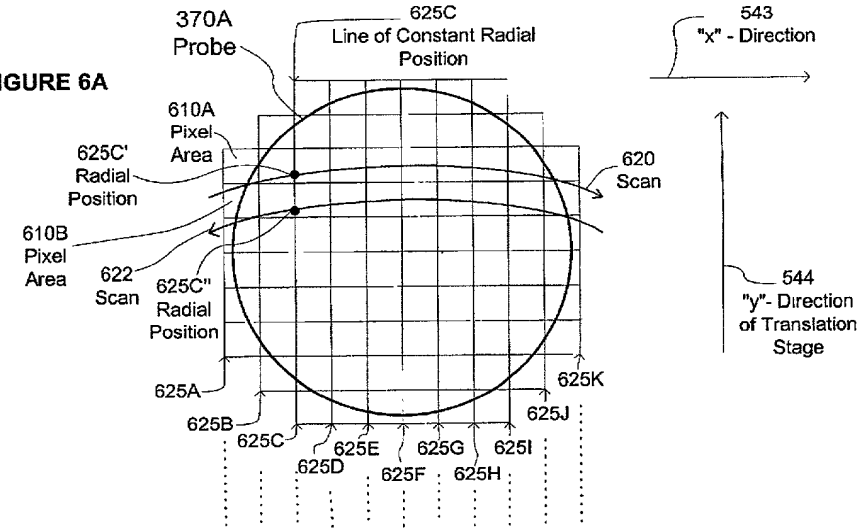


FIGURE 6B

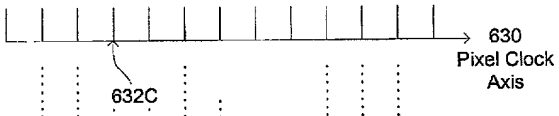


FIGURE 6C

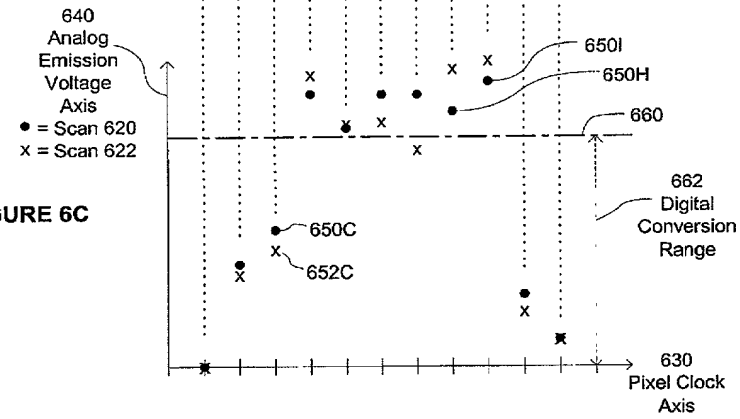
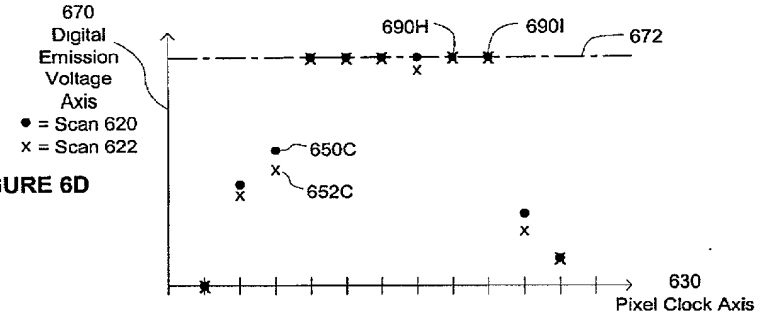
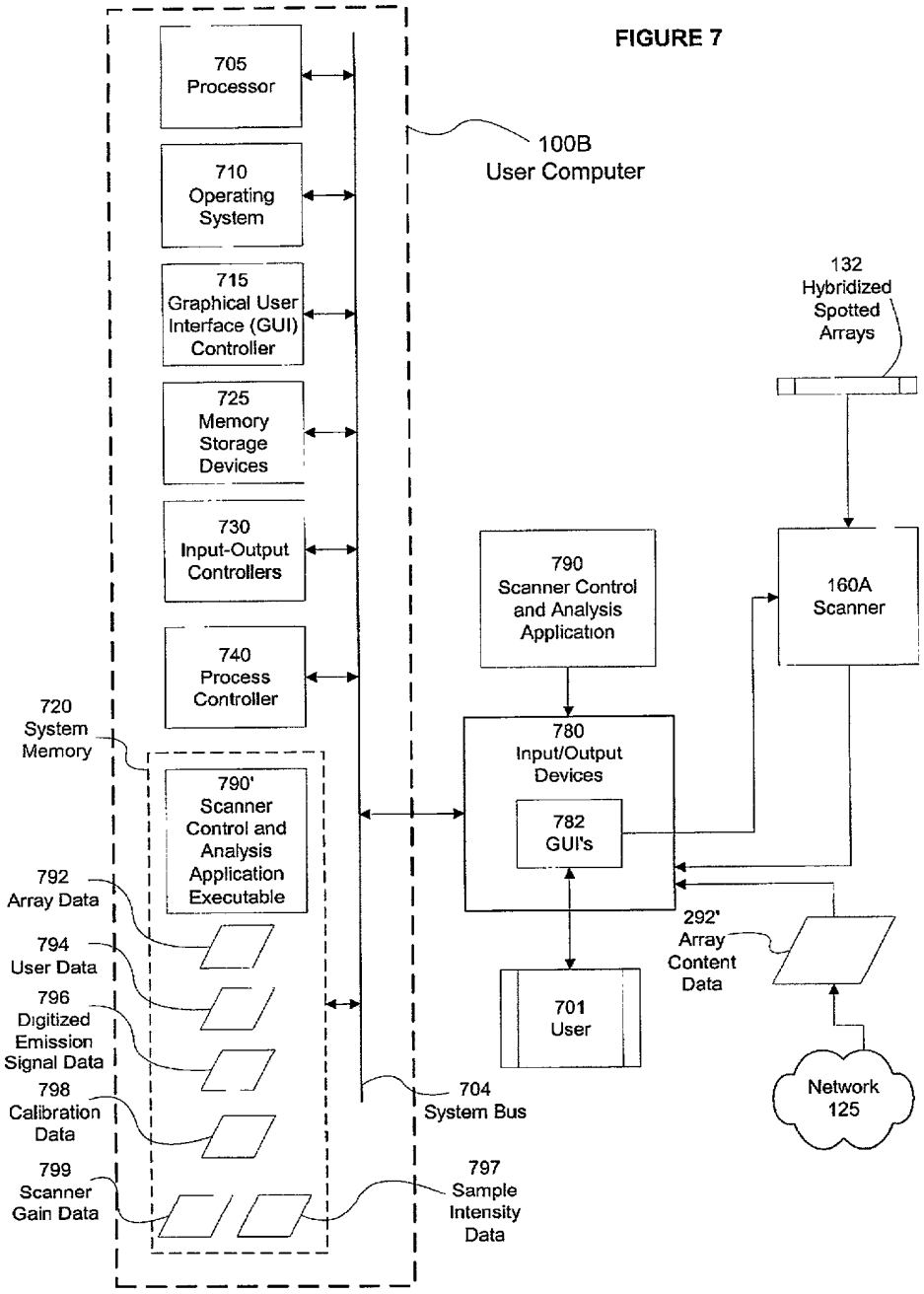


FIGURE 6D



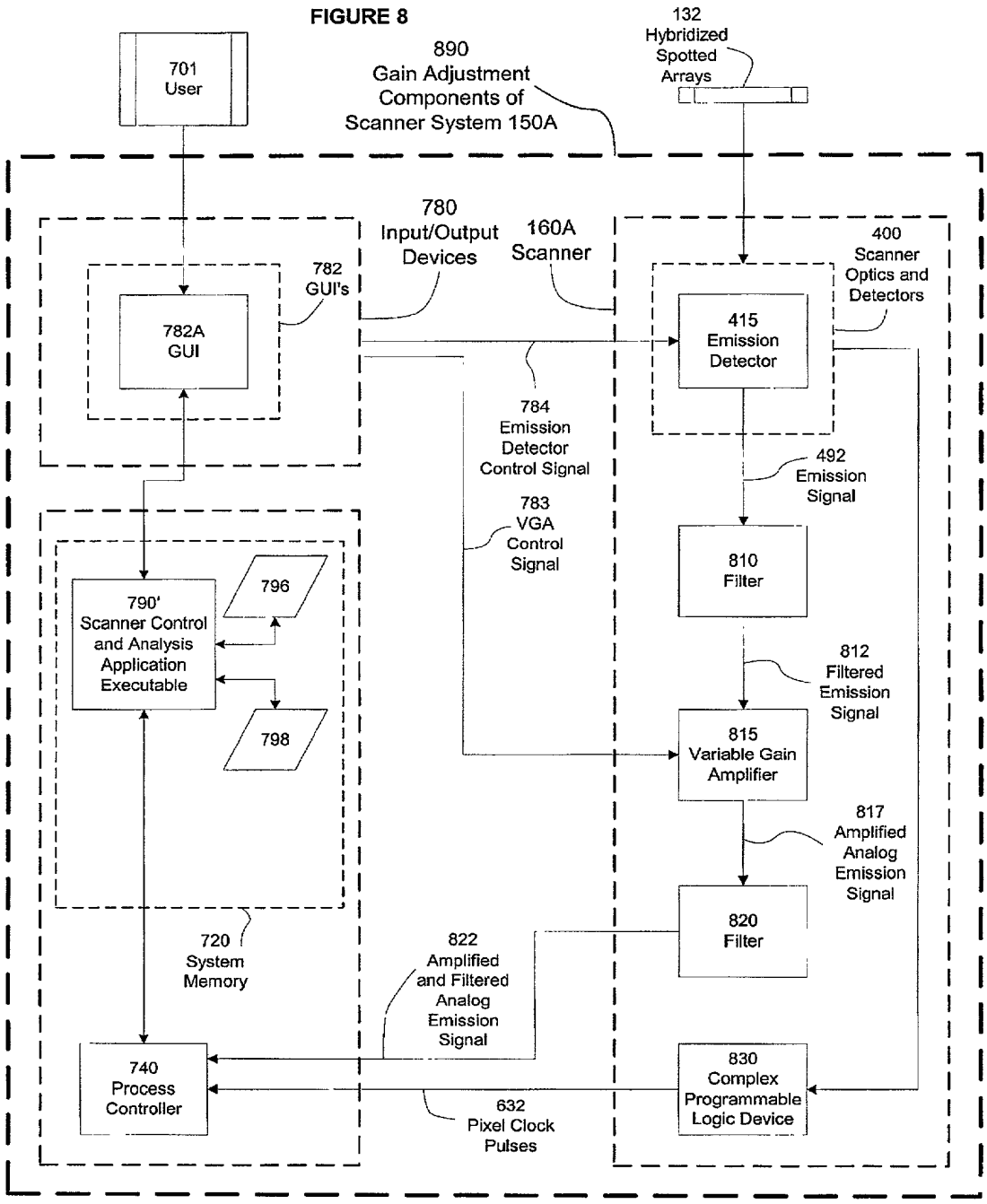
Document 1 Filed 07/07/2008

FIGURE 7



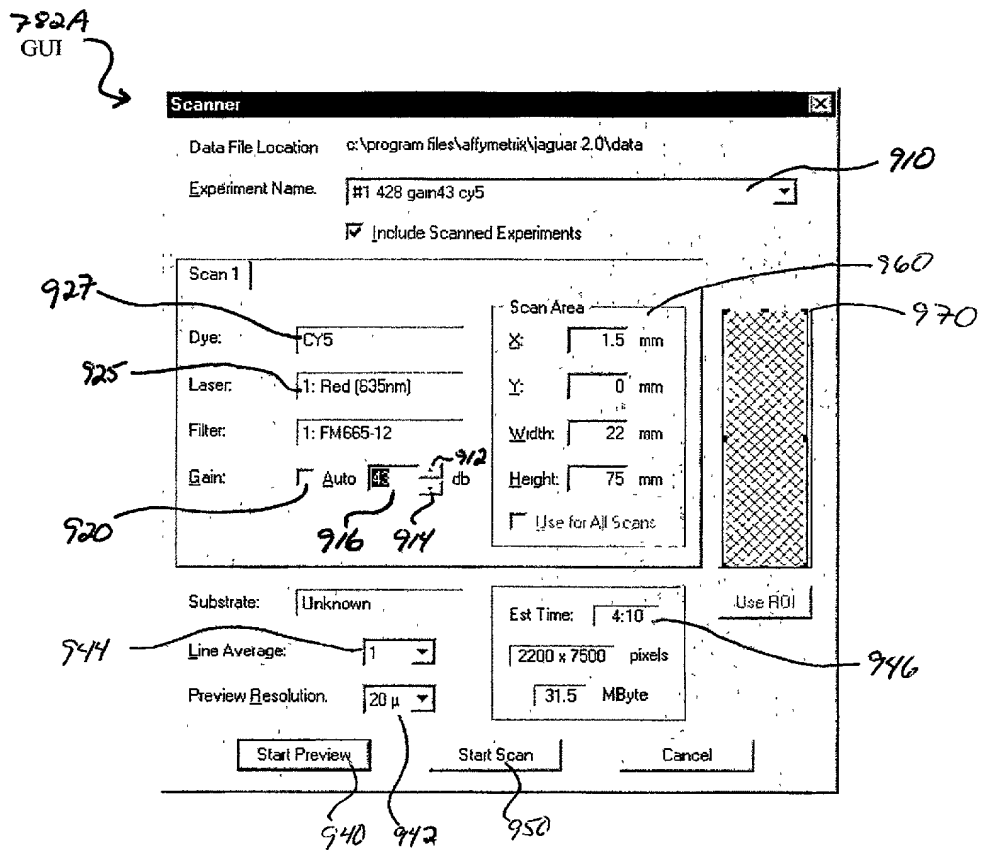
09858293.1.07.1701

FIGURE 8



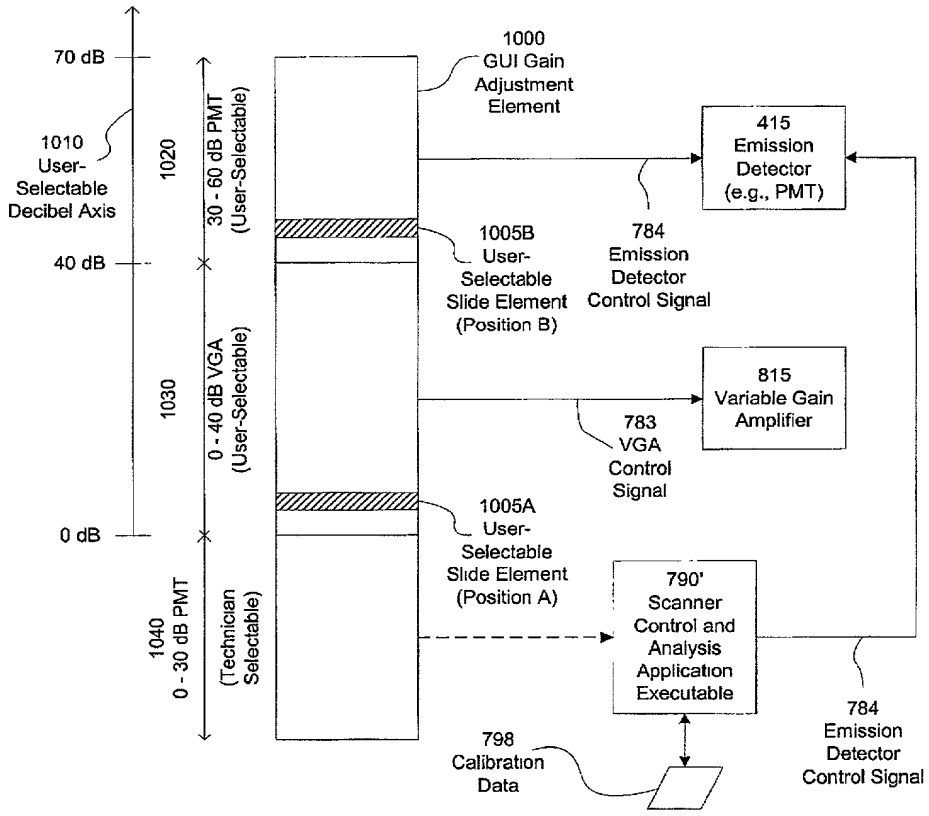
Docket No. 2003-0

FIGURE 9



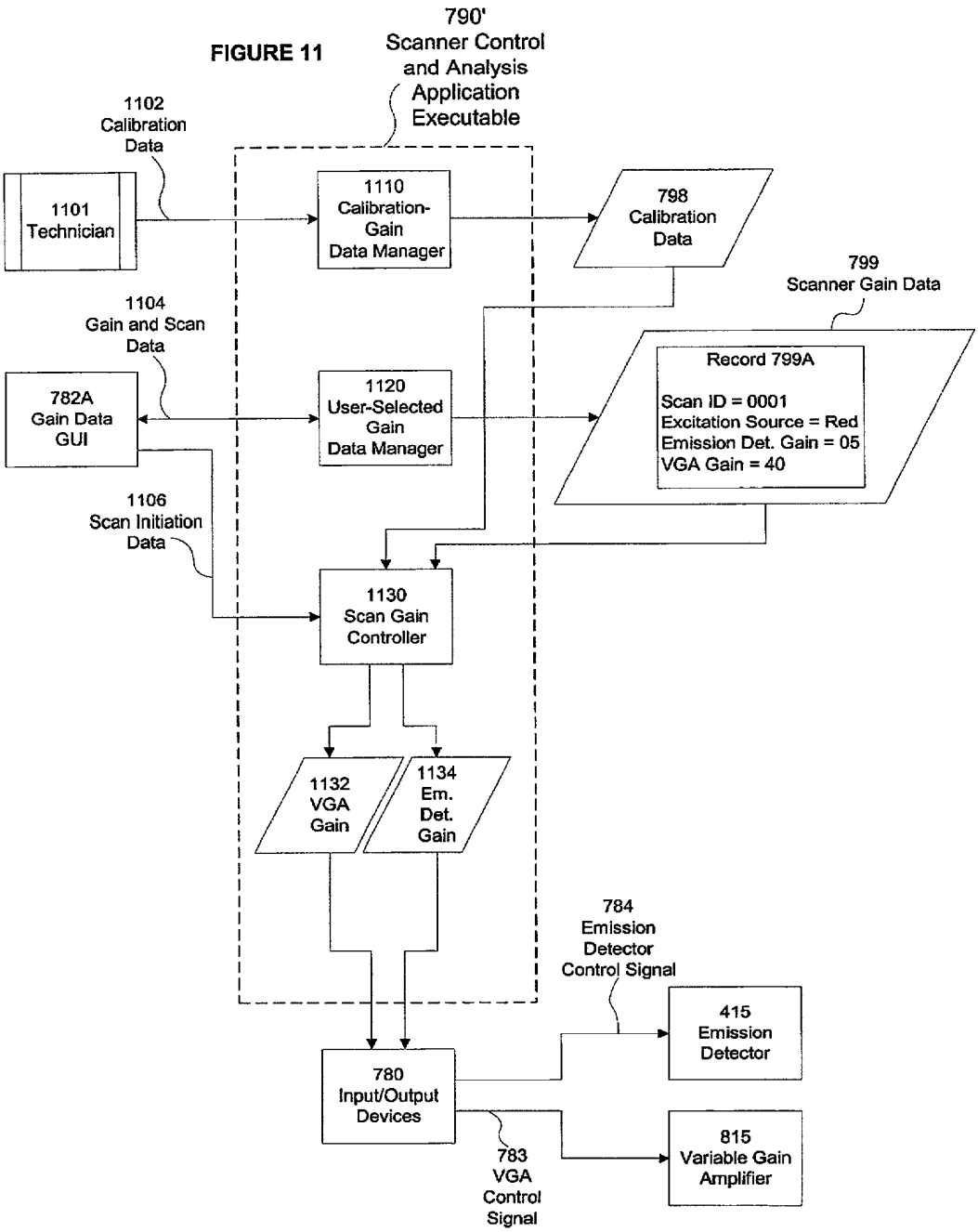
DOCKET ALARM

FIGURE 10



10/27/04, 4:05:59 PM

FIGURE 11



Docket No. 07-1701

FIGURE 12A

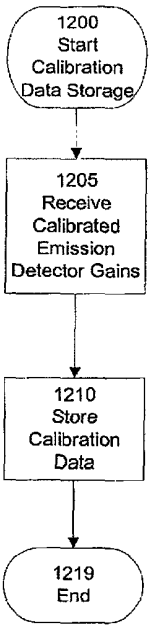


FIGURE 12B

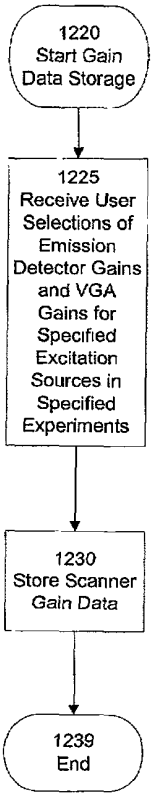
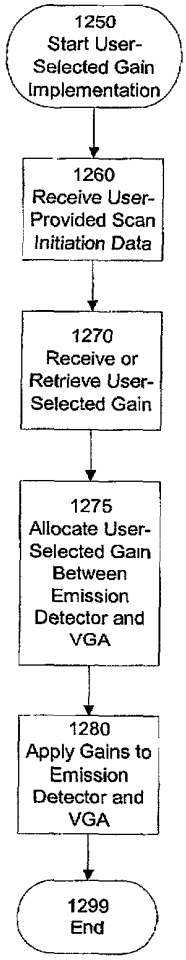


FIGURE 12C



Petitioner's Exhibit 1009 - Page 71 of 74

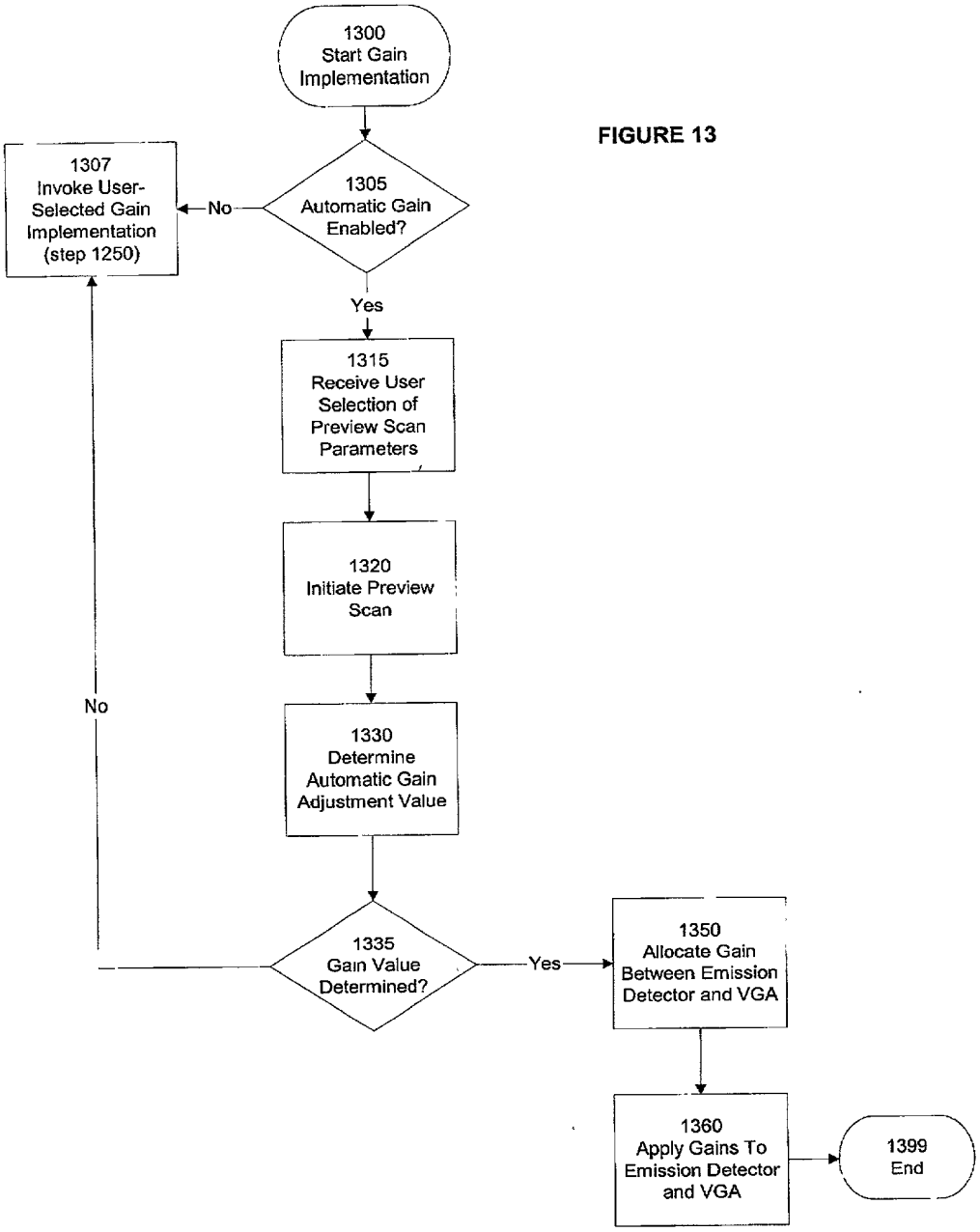
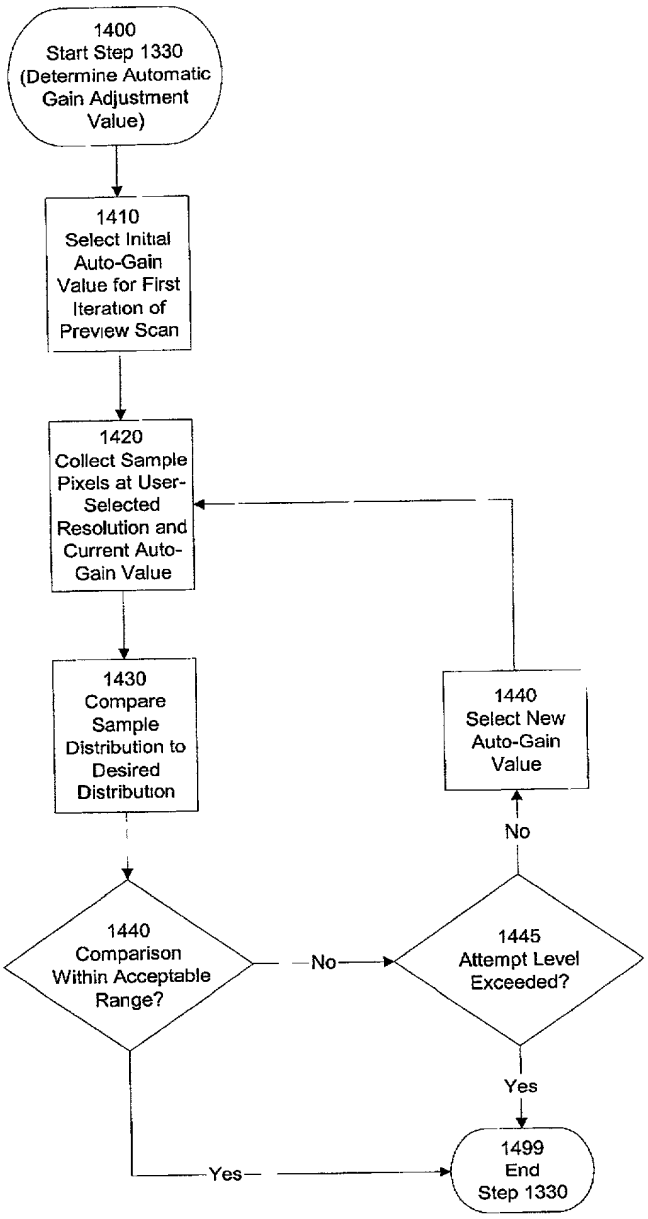


FIGURE 13

Docket No. 10971.004

FIGURE 14


1400
Start Step 1330
(Determine Automatic
Gain Adjustment
Value)
1410
Select Initial
Auto-Gain
Value for First
Iteration of
Preview Scan
1420
Collect Sample
Pixels at User-
Selected
Resolution and
Current Auto-
Gain Value
1430
Compare
Sample
Distribution to
Desired
Distribution
1440
Comparison
Within Acceptable
Range?
No
1445
Attempt Level
Exceeded?
No
1440
Select New
Auto-Gain
Value
Yes
Yes
1499
End
Step 1330

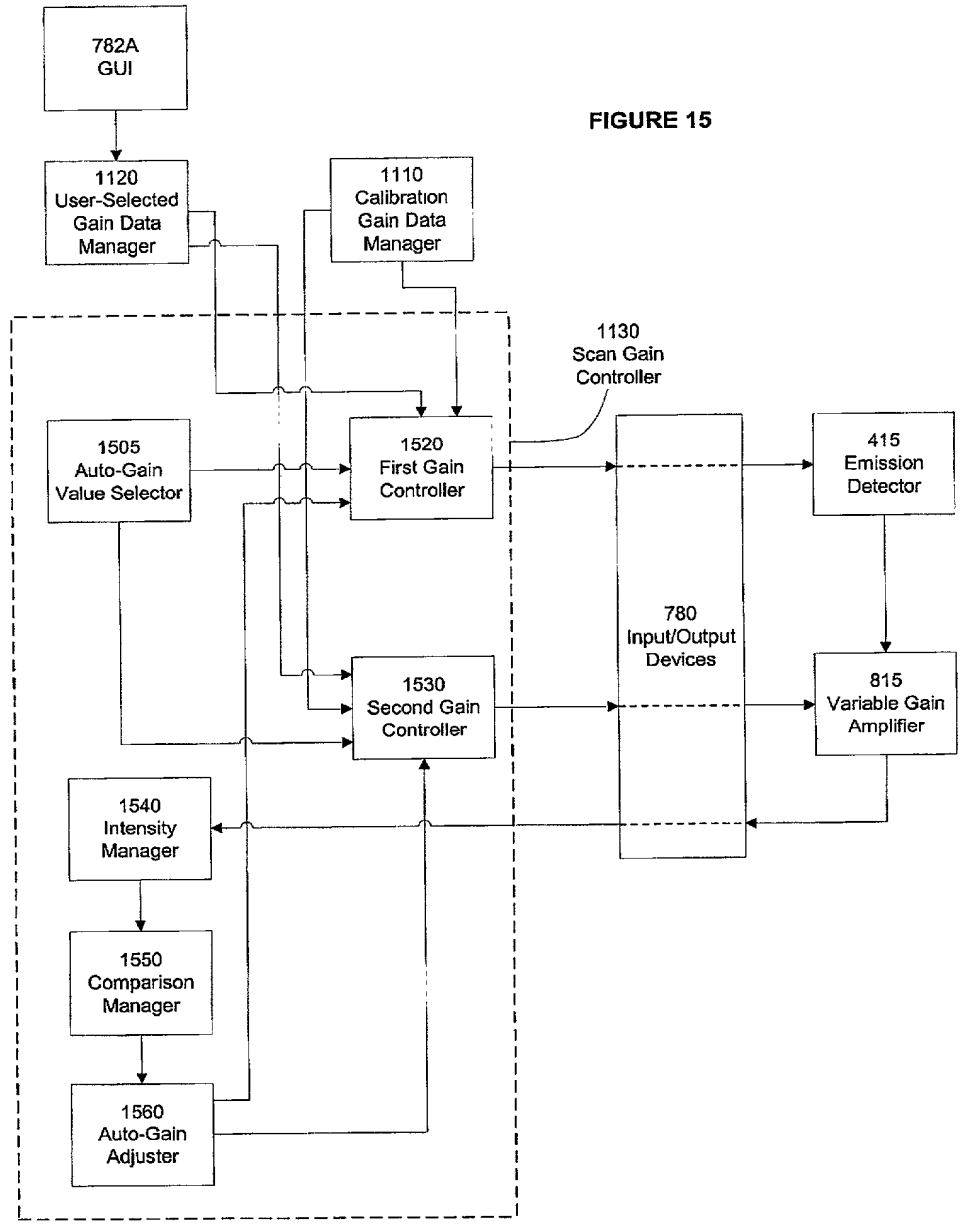

782A
GUI
1120
User-Selected
Gain Data
Manager
1110
Calibration
Gain Data
Manager
1130
Scan Gain
Controller
1505
Auto-Gain
Value Selector
1520
First Gain
Controller
415
Emission
Detector
780
Input/Output
Devices
1530
Second Gain
Controller
815
Variable Gain
Amplifier
1540
Intensity
Manager
1550
Comparison
Manager
1560
Auto-Gain
Adjuster

FIGURE 15